

Title (en)
PHOTOVOLTAIC POWER DEVICE AND WIRING

Title (de)
PHOTOVOLTAIKSTROMVORRICHTUNG UND VERKABELUNG

Title (fr)
DISPOSITIF ET CÂBLAGE D'ALIMENTATION PHOTOVOLTAÏQUE

Publication
EP 3252909 B1 20200101 (EN)

Application
EP 17171489 A 20170517

Priority
• US 201662341147 P 20160525
• US 201662395461 P 20160916

Abstract (en)
[origin: EP3252909A1] Various implementations described herein are directed to employing photovoltaic strings including a photovoltaic power device with a specialized wiring configuration, which enables high string efficiency without incurring excessive wiring costs. Implementations may include a cable built into photovoltaic generators that carry one portion of the current, and other portions of the current may be carried by direct-current (DC) or alternating-current (AC) cables bypassing the photovoltaic generators.

IPC 8 full level
H02J 3/38 (2006.01)

CPC (source: CN EP US)
H02J 3/38 (2013.01 - US); **H02J 3/381** (2013.01 - EP US); **H02S 10/00** (2013.01 - CN); **H02S 40/30** (2014.12 - CN); **H02S 40/32** (2014.12 - EP US); **H02S 40/34** (2014.12 - EP US); **H02S 50/10** (2014.12 - EP US); **H02J 1/00** (2013.01 - EP US); **H02J 7/35** (2013.01 - EP US); **H02J 2300/24** (2020.01 - EP US); **H02J 2300/26** (2020.01 - EP US); **Y02E 10/56** (2013.01 - EP)

Cited by
EP4024688A3; US10230310B2; US12027849B2; US11962243B2; US11598652B2; US11620885B2; US11538951B2; US11687112B2; US11824131B2; US11867729B2; US12003215B2; US11579235B2; US11961922B2; US11682918B2; US11929620B2; US12027970B2; US11575260B2; US11575261B2; US11594882B2; US11594881B2; US11594880B2; US11658482B2; US11735910B2; US11728768B2; US11870250B2; US11979037B2; US12003107B2; US10637393B2; US10116217B2; US10097007B2; US9869701B2; US10461687B2; US11296650B2; US11888387B2; US10778025B2; US10931119B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3252909 A1 20171206; **EP 3252909 B1 20200101**; CN 107437926 A 20171205; CN 107437926 B 20210525; CN 113131859 A 20210716; EP 3687019 A1 20200729

DOCDB simple family (application)
EP 17171489 A 20170517; CN 201710362679 A 20170522; CN 202110496807 A 20170522; EP 19217486 A 20170517